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ALCOA WALUMINUM



Gulf Building, Pittsburgh, Pressulvation

This Issue

Wright Introducts a new de Leues perm of Whittievelle, page 22.

TRANSPORT New York's proper transfer again

ABNY AND NAVE

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TORRIGORAL MANAGEMENT AND ADDRESS AND ADDR

Contents for April, 1936

LZ-129

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position . Company Property of Last Company Patrick Lay Back

News of the Manth. Aviation Pepule When he with said wheat they are status

> Second of Progress ... Domestic Age Transport World Ar Donner Service Avanton ... World Mr Toron Production and Export EAL Breech

OCTANE HITS 100

Now watch the records tumble!

Shell announces 100 Octone aviation gasoline with only 3cc of tetraethyl lead per vallon. Tests show remarkable advantages over 87 Octobe finals provided engine stresses are not exceeded

15 to 20% shorter take-off runt

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As birth power outpor europe pun Thenk of the possibilities Shell \$30

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MANAGOVENINE THE CONTRE



An open letter to Air Transport

NA THE SCHOOL SECURE MASSIVE LINE

SHELL 100 OCTANE AVIATION GASOLINE

PRECISION BEARINGS



FOR AIRCRAFT CONTROLS

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NORMA-HOFFMANN BEARINGS CORPORATION, STAMFORD, CONN., U. S. A. PRECISION SAIL POLIFE, AND THRUST BEARINGS







BOEING SCHOOL explains the purpose behind its 2-year "AIRLINE PILOT & OPERATIONS" course ... the most complete in America

As a division of United Air Lines, Becau School

Offersh of United worked web the Revise section—flight, stop and Measuray—is based the most experienced sighter in the world Hadro

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Next regular curollment June 29



AVIATION for April, 1936



What Chance Has the Pursuit? A French View

Theulis to M. Herot Risolsi, Melitingsakhel edition of Uderamuniques, Ashidisa has been oble to sensee this diseasation by on customiding Percoknathooliy of the relative merits of the Amsilyarused acriel or the Amsilyarused acriel credition and the abaptements. Renders with field to plaintee to compare M. Rengreen's ideas with hates of Comtacked States of the Comtacked States of the Comtacked States of the Comtacked States of the Comtacked States of Comtacked Stat

By C. Hongeron

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Be Prepared!

A Boy Scout motto that holds a valuable idea for the sirport operator

Ry M. G. Richan

N ALL PORMS of industry or weloo inddenly and a great are depends on how well or how budly exports, lvvn and equipment may be served by adequate preparation for

The situat problem is organily equipment symbols. Each airport per-



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AVIATION

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Bondley Sky Room

WHAT a statemen is to the "Norregarder the forward two discourseating incommodations for flow, are



the buffet and cooking forward one of the DST stemer transports

AVIATION

Record of Progress

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On Questions of Fact

A T THE MOMENT we have so intention of stmg hand of the good Dr. Copeland. At this point in the precedure we would easily like to recent the distinguished company that there is often Title relastouches between testimony errors with announced errordops some by the Air Navigotica Division of the Berrya of Air Commerce. Altegraber, over 1,100 transport piles with combaned from experience of close to 1,000,000 hours profied to the questionnaire find combilious removable substances. On the ashes mendifican made to recreet conditions that appear treade or equatiolistery. Agree, we are not going to nor versible ones. Here become is a true of

testimony affered to the consumer that new forty

be considered as competent. At least it serves to get

properly. The combined opinion of 60 odd per cont. of the 772 sither priors of the country should draw e lot more water than the "emotine" of certain "exports" who, according to report, out on a reell show while "investigation" creasin of the stellage. occupe ento the public penets. Someone with the inere on those of the nort lest they so too fax, and the base but all their naturess. When concerns insmissional elegatement laith full beauty of ween't about the purious condition of our terasportation in America, the larry can senerally be blassed if it hough

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IF YOU LIKE to this back your chars, put your pageghlet bearing the Seatherston Imprint filled "Listid-Populles: Bocket Development" by Profesor Robert H. Goldard of Clork Correspon (South norms Muscellaneous Collection, Volume 95, No. 31. school of thought that forcers interplanetary navigathan in the 25th century on a pay with the transcents. nexts tory of the 20th, you expect heath off Profesour Godden's work or too vicionary to rate excisor

corrying rockets espublic of interplanetery, or even least, exploration, but the work so for accomplished gives some elice as to the direction future developsoldered. More removement—the modeless of more made aphilist come to be at heat on the over second relation. Most respectant-practical find and combustion chamber combinations have been worked

tions. Abhurgh we have very little expectation of refere two owner space in a pocket skip in our own the results already alcowed. We hope that means will be found to enable Dr. Goddaed to enery on with

cet that weld ever 200 has per pound of material

Flying Equipment

Canadian Craiser Noordayn Norseman designed especially to meet condi-

Her Noopers is well known for his fiving conditions. It is of the high wing work to experient engineer with the sid type, covered in forward by Counties hace. He fast job of deagn as the wheels, firsts or slow Sound storates type samples for Pittains. (Arreston, capacity for low hosespower. The en-November, 2021). He latest effects are used in a 420 by Writer Witchespi, and reservated in Nowdoyn Armsh Ltd. the ship has been becaused for pilot and The November is a larke transport to accommoduse buller capps, and it applace with festages expensify applicable module from four different doors, one in Canadian or other satural thereas, of which is almost 4 ft, wide to permit

the rolling of standard Stigat resolves family and tad surfaces with fabric

Whirlwinds De Luxe



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For 200 miles maps, named to be writtened with the provided print property stands

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Grumman Fighter

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radio and appropriate emission

Kassa Dity last worth we have been used Gramman number. Wheels pull mount and attremtly favorable comment





About the state of the control of th

Power plant is a standard Feed V.S.



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Fairchild Scaplane

Vodel 24 toted on Ede front in

AIRPLANE WHEELS -BRAKES - PILOT SEATS AND PNEUDRAULIC SHOCK STRIFTS

AVIATION

AIRPLANE PRODUCTS RRAKE WHEELS High and Low Pressure TAIL WHEELS For All Wheels BRAKES Mechanically and Hydraulically Operated OPERATING CYLINDERS FOR with Flexible Hose and Fittings TAIL WHEEL ENUCELES Steenable and Swivelable with Stimmy Dermounes PNEUDRAULIC SHOCE STRUTS
Designed and Tested to Most Individual Requirements PILOT SEATS

Standard Army and Narry Type
secretain increases is evaluate to resent increases
BENDIX PRODUCTS CORPORATION
ARREAM VASCE AND MARKETING - TOOLS SEEL TREAMS
(Exhibitory of local actions Corporation)

model, powered with a Warner engine equipment. With a Hamilton Stand and fired with standard flaps. Floats and soral propeller, three people, 40 were Eduly Model 64-2425. Liversed and of coupling and 64 fo all harriers gross weight was 2,500 fb. which, with a sadder sorra equipment way be ona normal exercy weight of 1,768 fb., nind Full lead inter-offs were made to gives a useful load of S47 h. For the a 4-5 mgh, wand is 20 seconds. Under dies fitted with a wooden propeller. On the same conditions lighter leads were people, 40 cml of graphus, and 57 fb. at any level was about 120 cmp h at of laggage and/or each resulted 2,150 cp.m.

With Foreign Builders

The trend toward two-engine monoplanes both for military and commercial purposes continues

Propositor the Sensen of Britain's two- Its engines are Schilder Chotals TS is the British 542 recently described in 2,200 npm at 6,000 ft and to a much their relevant. Later effective of this man of 200 to at 2,500 is 7 to steed is 188 m.p.h., range 200 miles. Normal shows in an econographic drawing











both for military and commercial models place twin engine type in a big may, can'illever monoplace with twin on







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the tradency edge of the man wing

photo are eater 604 by RMW

Engine ner 660 bp. R.M.W. tuelon with a carrow sected receiver along reflecter, water-socked Victors, driving

Norman or 500,560 has backen from



water in complex to the older Dail type

12,400 h., gross weight 19,240 h.



Ceiling unlimited ... high, thin, overcast ... Visibility,

8 miles ... everything clear ... OK'

...and it's "OK" for the engines, too, because they have this purer, tougher oil

Winex dependable engines are the most immortant item in your operations, it is peramount that your oil he riskr

You can take the seard of 3 out of the resulted have standardized on 4 major cirlines that Texaco Airplane Oils, Casoline, and Rocker Arm Greac have applities that you absolutely need in your planes.

These expeful operators have proved that Texaco Airplane Oils maintain versures at high temperaturns that Yarnes Aviation Corp. line delivers continuous describible

power at your propellers. We have made sure of this for you by studying the requirements of existion and developing a special re-



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A WEEL Accords Cord about sources also highest degree of safe, dependable servor, ... the product of Rochling's 50 years' of speculation in rather wire and wire scoduces & The chairs of Consolidated ... Beerny ... Marrin ... Geess Lakes Bellings . . . Lockheed . . . General . . . Skooky... Granuss..., Corelis..., Chance Veeglet ... and other plane makers.

ONLY A FINE PRODUCT MA

Residing Wire Already Products includes-

three-bladed Blasilies Speciard propolicy. The skip is stressed for future magning of two 800 to engine. Gen. and discussion are spin P41 is gines the ship is expected in attace a top speed of 254 m s h at the monant, a number of brob-Medie is 960 bp. at 11,000 ft. and 1,000 be at 1,500 ft. The dry weigh









Buyers' Log Book

Fuel Tank Gase

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New Thor Tools
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Aircraft Skiis Washington Aircraft & Transport secure approval on ski confe-

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HIGHER POWERED "RELIANTS"



Model SR1C Bush for the Pure Oll Company of Chicago

MODEL SE-7C 260 H.P. Masor and Controllable Propeller.

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MODEL SR-RE 320 H.P. Noter and Controllable Propeller.

Prices and a the specifications on r specifications Business Accepts Stinson

More business concern new fiv the Stinson "Reliant" than all

other makes of moders four place oshin planes combined. This acceptance has been accorded the "Reliest" due to a superdependability saids possible by the finences of manufacture of a design of such basic roundness that it permitted constant inrevenement without absolution chanters.

The standard SR-18 "Relitart" carries usee useful load and gives letter all countal performance than say of its predensates but it accommodate those who desire to carry greater loads at high altitudes, Scitosen now presents this new series of higher powered "Relitaria." These places are acressed to every greater loads at higher speeds and, of course, maintain those after fastors which continue to be synonymeas with the news "Relitaria."

Stinson Aircraft Corporation

Division of Avantum Manufacturing Corp.

WAYNE MICHIGAN U.S.A.

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WHIRLWIND

CYCLONE

PIONEER INSTRUMENTS



AUTOSYN REMOTE INDICATING SYSTEM

The Pioneer Autosya System provides a positive means of remote instrument indication employing a proven principle. A small transmitting unit, located at the source of measurement, transmits to an indicating unit on the instrument board the movement of mechanisms such as Bourdon tubes, disphragms and position Indicators. By using a dual indicator with two pointers, as many as four functions for each of two engines may be shown on one dial.

The Pioneer Autosyn offers the following advantages:

Flammers has releast and shafe: a Flammeter field and ad laws to the cocket a Conserver analysis and shoul shore . Simblifus servicing, as the only connection between the compared and industrial and is an electric conductor + Electric programmed federa duc to hocker or thinted capillarie or other takes . Adaptable to all automore indicators

The consider Picturer line includes instruments suitable for every type place and every kind of flying

PIONEER INSTRUMENT COMPANY, INCORPORATED PROOFING A NEW YORK . A STEELIDIARY OF THE BENDIX AVIATION CORPORATION The Maintenance Notebook

Assembly Stand

A GREAT deal of time to sered in en-ricking Wright Cycloses in Dougles

at case to more the stands byte standard of according stand is now being used by TWA and other mens of Dougles

WANDSKING about Pan American's Distance Key bean can in age to

hidden or its costrois. The engineer is similar to that must about the Name's

AT Enters Air Lond's new base (86th Screet Airport, Miles), the engine headings making the heading of engineer









GREATER SPEED-MORE ROOM-MORE COMFORT



BRIDGEPORT, CONNECTICUT

Deluge

composition sharing floods . . . Five airiages combine to build new plage . . . American rake rate revies . . . Chicago & Southern burn Lockboods . . . TWA iestalis faciole ratio San Propoleon warr ... Yarren moves bose . . . Army saks new Mds. swards engine contracts French confer on North Atlantic line . . . Germon Zep-

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Aircraft offer first method of communication and relief to fleeded districts of New England and Pennsylvania Assess final waters to wide areas in ing across, Cont Genel, primit revent For several days TWA was the only

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Transport Notes American wants more nov. Nov. schedules for Broaiff, Northwest. Chicago & Santhern buyo Electron Assertan America Del a petition

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Calendar

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In TWA's proposed plan to contrate

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Fuel De-Leer

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alventy saled have also been assumed to the Material Division. White Park July 30 to June 30, 1935, with the tame set for acceptance changed from three to two mentio thereafter. Zanie train er spenings (Circular Proposal 36-468) scheduled for Nov 37 have been moved by to Aug. 17, for passager transports (Circular Proposal 36-530) To Wright on March 11 went an ceder for \$13 tengines, at a cost of about \$2,002,000 Oil them, 453 (\$5,544,000) are new G Curianes rated

enrared bumbers now building at the for books this son other orders octions below, 100 per sent apures are specially. The personal RD are 450 opinion Twin Wasp Jrs., seerc at 790 lin. Tiers will rest \$1,077,000. Then the Birdmen's Perch

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> · HAINOS - A new fargar will be to replace the building recently degreed by fire . . . A teletype resolute for reporting weather conditions has been in-

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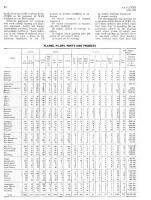


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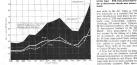
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